



(11) **EP 1 938 931 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:  
**06.08.2008 Bulletin 2008/32**

(51) Int Cl.:  
**B26B 19/06** (2006.01) **B26B 19/02** (2006.01)  
**B26B 19/38** (2006.01)

(43) Date of publication A2:  
**02.07.2008 Bulletin 2008/27**

(21) Application number: **07150474.0**

(22) Date of filing: **28.12.2007**

(84) Designated Contracting States:  
**AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR**  
Designated Extension States:  
**AL BA HR MK RS**

- **Zhang, Sam**  
**Sterling, IL 61081 (US)**
- **Lou, Tiger**  
**315502 Ningbo Zhejiang (CN)**
- **Wang, Bin**  
**Rock Falls, IL 61011 (US)**

(30) Priority: **29.12.2006 US 648515**

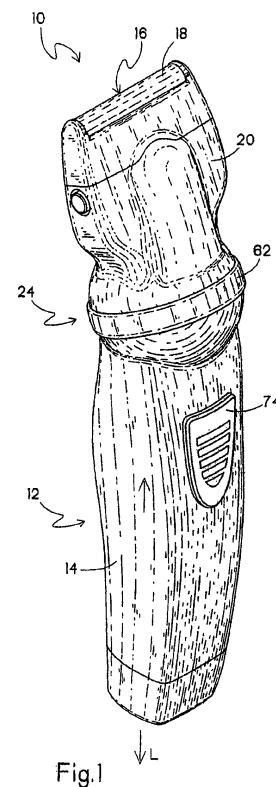
(71) Applicant: **Wahl Clipper Corporation**  
**Sterling, IL 61081 (US)**

(74) Representative: **Pontet, Bernard et al**  
**Pontet Allano & Associés s.e.l.a.r.l.**  
**25 rue Jean-Rostand**  
**Parc Club Orsay Université**  
**91893 Orsay Cédex (FR)**

(72) Inventors:  
• **Li, Five-Tiger**  
**315502 Ningbo Zhejiang (CN)**

(54) **Hair trimmer with rotatable detented head**

(57) A hair trimmer includes a handle (12) having a housing (14) including an actuation assembly (24) rotatable relative to the housing, and a blade assembly (16, 16a) including a reciprocating blade (22), a stationary blade (18a) and a blade assembly housing (20), the blade assembly constructed and arranged for being detachably engaged to the actuation assembly in a plane of rotation (P) of the actuation assembly.



**EP 1 938 931 A3**



European Patent  
Office

# EUROPEAN SEARCH REPORT

Application Number  
EP 07 15 0474

DOCUMENTS CONSIDERED TO BE RELEVANT				
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)	
X,D	US 5 579 581 A (MELTON SCOTT [US]) 3 December 1996 (1996-12-03)	1-3	INV. B26B19/06 B26B19/02 B26B19/38	
A	* column 3, line 34 - column 4, line 10; figures 1,2,4 *	14		
X	GB 2 383 970 A (EDDIE PALIN DISTRIB LTD [GB]) 16 July 2003 (2003-07-16) * page 4, paragraph 2; figures 2,4,8 *	1,3,7-11		
P,X	WO 2007/135553 A (PERFECT STEAM APPLIANCES LTD [CN]; CHENG ROCKY [CN]) 29 November 2007 (2007-11-29) * page 6, line 4 - page 7, line 23; figures 2-4 *	1,2		
P,X	WO 2007/060590 A (KONINKL PHILIPS ELECTRONICS NV [NL]; KOSTNER JOHANNES [AT]; HAEFELE PE) 31 May 2007 (2007-05-31) * page 4, line 29 - page 6, line 27; figures 1,2a-c *	1		
A	EP 1 529 608 A (WAHL CLIPPER CORP [US]) 11 May 2005 (2005-05-11) * paragraphs [0012] - [0014]; figures 1,3,4 *	1,14		TECHNICAL FIELDS SEARCHED (IPC)
A	US 3 217 409 A (PROFFITT IRA J) 16 November 1965 (1965-11-16) * column 6, lines 3-12; figures 1,6-8 *	14		B26B
A	US 6 378 210 B1 (BICKFORD ROY L [US]) 30 April 2002 (2002-04-30) * abstract; figure 1 *	14		
A	EP 0 176 128 A (PHILIPS NV [NL]) 2 April 1986 (1986-04-02) * abstract; figures 1-5,11,12 *	14		
-/-				
The present search report has been drawn up for all claims				
Place of search Munich		Date of completion of the search 18 June 2008	Examiner Rattenberger, B	
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons &amp; : member of the same patent family, corresponding document</p>				

2  
EPO FORM 1503 03.82 (P04C01)



European Patent  
Office

# EUROPEAN SEARCH REPORT

Application Number  
EP 07 15 0474

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A	EP 1 295 686 A (WAHL CLIPPER CORP [US]) 26 March 2003 (2003-03-26) * abstract; figures 1-3 * -----	14	
			TECHNICAL FIELDS SEARCHED (IPC)
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 18 June 2008	Examiner Rattenberger, B
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ..... & : member of the same patent family, corresponding document	

2  
EPO FORM 1503 03.82 (P04C01)



European Patent  
Office

Application Number

EP 07 15 0474

### CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):

☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

### LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

☒ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.

☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.

☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

☐ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

☐ The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).



The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-13,20

a hair trimmer comprising a handle having a housing including an actuation assembly rotatably relative to the housing and a blade assembly for being detachably engaged to the actuation assembly in a plane of rotation of the actuation assembly

---

2. claims: 14-19

a hair trimmer comprising a handle having a housing including an actuation assembly including a mating rib and a blade assembly with a corresponding slot for receiving said mating rib for positioning the blade assembly with respect to the actuation assembly

---

**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

EP 07 15 0474

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
The members are as contained in the European Patent Office EDP file on  
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

18-06-2008

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5579581	A	03-12-1996	AU 695846 B2	27-08-1998
			AU 3049095 A	02-05-1996
			CA 2157559 A1	22-04-1996
			GB 2294230 A	24-04-1996
-----				
GB 2383970	A	16-07-2003	AU 2002353222 A1	24-07-2003
			WO 03057432 A1	17-07-2003
-----				
WO 2007135553	A	29-11-2007	NONE	
-----				
WO 2007060590	A	31-05-2007	NONE	
-----				
EP 1529608	A	11-05-2005	AU 2004229019 A1	26-05-2005
			CA 2484903 A1	10-05-2005
			CN 1616196 A	18-05-2005
			JP 2005144166 A	09-06-2005
			MX PA04011082 A	08-06-2005
			US 2006156880 A1	20-07-2006
			US 2005097757 A1	12-05-2005
-----				
US 3217409	A	16-11-1965	NONE	
-----				
US 6378210	B1	30-04-2002	NONE	
-----				
EP 0176128	A	02-04-1986	CA 1246844 A1	20-12-1988
			DE 3568149 D1	16-03-1989
			JP 61071088 A	11-04-1986
			NL 8402778 A	01-04-1986
			US 4688329 A	25-08-1987
-----				
EP 1295686	A	26-03-2003	CA 2393851 A1	19-03-2003
			CN 1408516 A	09-04-2003
			DE 60202333 D1	27-01-2005
			DE 60202333 T2	08-12-2005
			US 2003051346 A1	20-03-2003
-----				